

C o p y



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of: Andre et al.

Attorney Docket No.:  
APL1P302/P3262US1

Patent: 7,094,089 B2

Issued: August 22, 2006

Title: DC CONNECTOR ASSEMBLY

**CERTIFICATE OF MAILING**

I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as first-class mail on June 25, 2007 in an envelope addressed to the Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450.

Signed:

Aurelia M. Sanchez

**REQUEST FOR CERTIFICATE OF CORRECTION  
OF OFFICE MISTAKE  
(35 U.S.C. §254, 37 CFR §1.322)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450  
Attn: Certificate of Correction

Dear Sir:

Attached is Form PTO-1050 (Certificate of Correction) at least one copy of which is suitable for printing. The errors together with the exact page and line number where the errors are shown correctly in the application file are as follows:

**CLAIMS:**

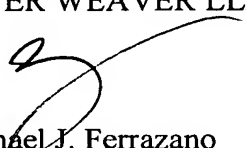
1. In line 51 of claim 9 (column 15, line 40) change "of to" to --of the--. This appears correctly in Amendment D as filed on March 2, 2006, on page 3, paragraph 8, line 1, as claim 7.
2. In line 6 of claim 21 (column 16, line 57) change "convener" to --converter--. This appears correctly in Amendment D as filed on March 2, 2006, on page 8, paragraph 4, line 4, as claim 29.

3. In line 20 of claim 31 (column 18, line 42) change "spared" to --spaced--. This appears correctly in Amendment D as filed on March 2, 2006, on page 7, paragraph 1, line 3, as claim 24.

Patentee hereby requests expedited issuance of the Certificate of Correction because the error lies with the Office and because the error is clearly disclosed in the records of the Office. As required for expedited issuance, enclosed is documentation that unequivocally supports the patentee's assertion without needing reference to the patent file wrapper.

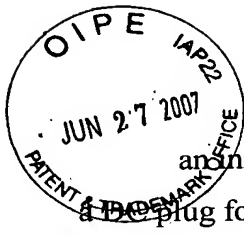
It is noted that the above-identified errors were printing errors that apparently occurred during the printing process. Accordingly, it is believed that no fees are due in connection with the filing of this Request for Certificate of Correction. However, if it is determined that any fees are due, the Commissioner is hereby authorized to charge such fees to Deposit Account 500388 (Order No. APL1P302).

Respectfully submitted,  
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an inner electrode disposed within the outer conductor;  
a DC plug for insertion into the DC receptacle at only 0 and 180 degrees, the DC plug comprising:

an outer conductor that electrically mates with the outer conductor of the DC receptacle in both the 0 and 180 degree orientations; and

an inner electrode disposed within the outer conductor and that electrically mates with the inner electrode of the DC receptacle in both the 0 and 180 degree orientations,

wherein the inner electrodes of both the DC plug and DC receptacle include juxtaposed contacts, the juxtaposed contacts including a single center signal contact and first and second lateral redundant power contacts that are equally spaced from the center signal contact and positioned in their entirety on opposing sides of the center signal contact, the center signal contacts being configured to transmit ~~data~~ signals, the first and second lateral redundant power contacts being configured to transmit DC power, and

wherein the center signal contact of the DC plug mates with the center signal contact of the DC receptacle in both the 0 and 180 degree orientations in order to establish the only signal line of the DC connector arrangement, and

wherein the first lateral redundant power contact of the inner electrode of the DC plug mates with the first lateral redundant power contact of the inner electrode of the DC receptacle and the second lateral redundant power contact of the inner electrode of the DC plug mates with the second lateral redundant power contact of the inner electrode of the DC receptacle in the 0 degree orientation in order to establish the first power line of the DC connector arrangement, and

wherein the first lateral redundant power contact of the inner electrode of the DC plug mates with the second lateral redundant power contact of the inner electrode of the DC receptacle and the second lateral redundant power contact of the inner electrode of the DC plug mates with the first lateral redundant power contact of the inner electrode of the DC receptacle in the 180 degree orientation in order to establish the first power line of the DC connector arrangement, and

wherein the outer shell of the DC plug mates with the outer shell of the DC receptacle in both the 0 and 180 degree orientations in order to establish the second power line of the DC connector arrangement.

8. (Original) The DC connector arrangement as recited in claim 7 wherein each of the contacts includes an upper contact surface and a lower contact surface.

wherein the inner electrodes of both the DC plug and DC receptacle include juxtaposed contacts, the juxtaposed contacts including a center contact and first and second lateral redundant contacts that are equally spaced from the center contact and positioned in their entirety on opposing sides of the center contact, the center contacts being configured to transmit data signals, the first and second lateral redundant contacts being configured to transmit DC power, and

wherein the center contact of the DC plug mates with the center contact of the DC receptacle in both the 0 and 180 degree orientations, and

wherein the first lateral redundant contact of the inner electrode of the DC plug mates with the first lateral redundant contact[s] of the inner electrode of the DC receptacle and the second lateral redundant contact of the inner electrode of the DC plug mates with the second lateral redundant contact of the inner electrode of the DC receptacle in the 0 degree orientation, and

wherein the first lateral redundant contact of the inner electrode of the DC plug mates with the second lateral redundant contact of the inner electrode of the DC receptacle and the second lateral redundant contact of the inner electrode of the DC plug mates with the first lateral redundant contact of the inner electrode of the DC receptacle in the 180 degree orientation

25. (Previously Presented) The DC connector arrangement as recited in claim 15 wherein the outer conductive shell of the DC receptacle includes a pair ground flexures at the top of the outer conductive shell and a pair of ground flexures at the bottom of the outer conductive shell.

26. (Previously Presented) The DC connector arrangement as recited in claim 16 wherein the holding detent mechanism includes a pair of holding flexures in an opposed relationship on the sides of the DC receptacle and a pair of recesses in an opposed relationship on the sides of the DC plug, the holding flexures having detents that are configured to spring into the recesses when the DC plug is mated with the DC receptacle in order to help secure the DC plug to the DC receptacle, and wherein the DC receptacle includes a first pair of contact flexures on the top of the DC receptacle and a second pair of contact flexures on the bottom of the DC receptacle, the first and second pairs of contact flexures being in opposed relationship.

27. (Currently Amended) The DC connector arrangement as recited in claim 16 wherein the DC receptacle comprises:

~~an outer conductor; and~~

~~an inner electrode disposed within the outer conductor,~~  
~~and wherein the DC plug comprises:~~  
~~an outer conductor that electrically mates with the outer conductor of the DC~~  
~~receptacle; and~~  
~~an inner electrode disposed within the outer conductor and that electrically mates~~  
~~with the inner electrode of the DC receptacle,~~  
and wherein the inner electrodes of both the DC plug and DC receptacle include  
juxtaposed contacts, the juxtaposed contacts including a center contact and lateral redundant  
contacts that are equally spaced from the center contact, the center contact of the DC plug being  
configured to mate with the center contact of the DC receptacle, the lateral redundant contacts of  
the DC plug being configured to mate with either of the lateral redundant contacts of the inner  
electrode of the DC receptacle, the lateral redundant contacts of the DC receptacle and DC plug  
providing the same functionality such that the DC connector arrangement is operational in  
multiple orientations.

28. (Previously Presented) The DC connector arrangement as recited in claim 14 wherein the  
outer conductive shell of the DC receptacle includes a pair of holding flexures in an opposed  
relationship on the sides of the outer conductive shell of the DC receptacle, and wherein the  
outer conductive shell of the DC plug a pair of recesses in an opposed relationship on the sides of  
the outer conductive shell of the DC plug, the holding flexures having detents that are configured  
to spring into the recesses when the DC plug is mated with the DC receptacle in order to help  
secure the DC plug to the DC receptacle.

29. (Previously Presented) The DC connector arrangement as recited in claim 23 wherein the  
DC receptacle is coupled to an electronic device, and wherein the DC plug is coupled to a power  
adapter configured to receive AC power and output DC power for transmission through the DC  
plug, the power adapter including a power converter that converts the source AC power into DC  
power required for operating or charging the electronic device, the power converter including an  
identification circuit that communicates with the electronic device through the center contact in  
order to determine the DC requirement of the electronic device.

30. (Previously Presented) The DC connector arrangement as recited in claim 12 wherein the  
contacts of the DC receptacle are coupled to a PCB via wires embedded in the insulating

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(Also Form PT-1050)

## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. : 7,094,089 B2

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DATED : August 22, 2006

INVENTOR(S) : Andre et al.

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

### In the Claims:

In line 51 of claim 9 (column 15, line 40) change "of to" to --of the--.

In line 6 of claim 21 (column 16, line 57) change "convener" to --converter--.

In line 20 of claim 31 (column 18, line 42) change "spared" to --spaced--.

MAILING ADDRESS OF SENDER:

PATENT NO. 7,094,089 B2

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